

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

TORVIK et al.

Serial No.: Not Yet Assigned

Filed: Herewith

Atty. File No.: 5098-4-DIV

For: "HETEROJUNCTION BIPOLAR  
TRANSISTOR CONTAINING AT  
LEAST ONE SILICON CARBIDE  
LAYER"

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

) Prior Group Art Unit: 2815  
)  
)

) Prior Examiner: ECKERT II, GEORGE C.  
)  
)

) INFORMATION DISCLOSURE STATEMENT  
)  
)

"EXPRESS MAIL" MAILING LABEL NUMBER: EV368036995US  
DATE OF DEPOSIT: 4-15-2004

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING  
DEPOSITED WITH THE UNITED STATES POSTAL SERVICE  
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UNDER 37 C.F.R. 1.10 ON THE DATE INDICATED ABOVE AND IS  
ADDRESSED TO THE COMMISSIONER FOR PATENTS, P.O. BOX  
1450, ALEXANDRIA, VA 22313-1450.

TYPED OR PRINTED NAME: Amy S. Duarte

SIGNATURE: *Amy S. Duarte*

Dear Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

☐ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents/patent application publications are not enclosed in

accordance with the waiver dated July 11, 2003, whereby patent applications filed after June 30, 2003 and international applications that have entered the national stage under 35 U.S.C. § 371 after June 30, 2003 need not submit copies of U.S. patents and U.S. patent application publications.

☒ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. 10/301,261 filed November 21, 2002, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following co-pending applications, copies of which have been or are being submitted:

Serial No. \_\_\_\_\_ filed \_\_\_\_\_

Serial No. \_\_\_\_\_ filed \_\_\_\_\_

☐ Other: \_\_\_\_\_

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in

the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

### FEES

<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(b):</b> No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith satisfies one of the following conditions ("X" indicates satisfaction):</p> <div style="margin-left: 40px;"> <input checked="" type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or  <input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or  <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or  <input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.         </div> <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <div style="margin-left: 40px;">           (1) a final action under 37 C.F.R. 1.113 or            (2) a notice of allowance under 37 C.F.R. 1.311, or            (3) an action that otherwise closes prosecution in the application.         </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 40px;"> <input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.         </div> <p style="text-align: center;">OR</p> <div style="margin-left: 40px;"> <input type="checkbox"/> A check in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.         </div>
<input type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 40px;"> <input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)         </div> <p style="text-align: center;">AND</p> <div style="margin-left: 40px;"> <input type="checkbox"/> Applicants hereby requests consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.         </div>

**Certification (37 C.F.R. 1.97(e))**  
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

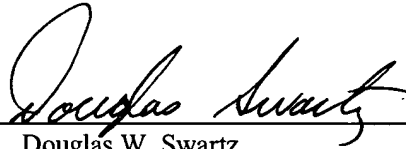
OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: \_\_\_\_\_



Douglas W. Swartz  
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Date: April 15, 2004

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	ATTY. DOCKET NO. 5098-4-DIV	SERIAL NO. Not Yet Assigned
	APPLICANT TORVIK et al.	
	FILING DATE Herewith	GROUP ART 2815

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1.	2,524,033	10/03/50	Bardeen	179	171	
	2.	2,569,347	09/25/51	Shockley	332	52	
	3.	2,918,396	12/22/59	Hall	148	1.5	
	4.	4,945,394	07/31/90	Palmour et al.	357	34	
	5.	5,047,365	09/10/91	Kawanaka et al.	438	315	
	6.	5,272,096	12/21/93	de Fresart et al.	438	312	
	7.	5,350,699	09/27/94	Nii	438	312	
	8.	5,378,901	01/03/95	Nii	257	77	
	9.	5,378,921	01/03/95	Ueda	257	574	
	10.	5,441,911	08/15/95	Malhi	438	285	
	11.	5,557,118	09/17/96	Hashimoto	257	197	
	12.	5,610,411	03/11/97	Takasu	257	77	
	13.	5,656,514	08/12/97	Ahlgren et al.	438	320	
	14.	5,864,169	01/26/99	Shimura et al.	257	587	
	15.	5,923,058	07/13/99	Agarwal et al.	257	198	
	16.	6,049,098	04/11/00	Sato	257	198	
	17.	6,313,488 B1	11/06/01	Bakowski et al.	257	198	
	18.	6,329,675 B1	12/11/01	Singh et al.	257	77	
	19.	2003/0071281 A1	04/17/03	Lippert et al.	257	2000	

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	APPLICANT TORVIK et al.	
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	20.	JP 2-3931	01/1990	Japan	138	365		X
	21.	JP 3-104123	05/1991	Japan	257	197		X
	22.	JP 5-235016	09/1993	Japan	438	694		X
	23.	JP 5-267321	10/1993	Japan	H01L	21/331		X

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	24.	"Integrated Pressure Sensor Using Silicon and Germanium Bipolar Transistors," <u>IBM Technical Disclosure Bulletin NN9104456</u> (Apr. 1, 1991), pp. 456-57.

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	